

# Work Order ID 81713

March-19-12 8:41:45 AM

**\*81713\***

Page 1

Item ID: D4287-1 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: UHMW U-Channel

Start Date: 29/03/2012 Start Qty: 10.00 **\*10\*** Cust Item ID:  
 Required Date: 29/03/2012 Req'd Qty: 10.00 **\*10\*** Customer:

Reference:

Approvals: Process Plan: MLJ Date: 12/03/19 Tooling: Run Start **\*NR1\***  
 QC: Date: SPC (Y/N): Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4287	A

100 0.00

**\*100\***

Purchasing

Purchasing

Memo

Issue P/O: 16475  
 Material: UHMW (white)  
 Supplier P#: McMaster-Carr 9928K53  
 Material release note required

0.00

CL 12/03/19 10ft

110

Receive & Inspect for Damage & Mat'l Certs

0.00

**\*110\***

Packaging

Packaging

Memo

0.00

CL 12/3/20 (10)

120

QC6- Inspect dimensions to drawing

0.00

**\*120\***

QC

Quality Control

Memo

0.00

12-03-21

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 81713

**\*81713\***

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March-19-12 8:41:45 AM

Item ID: D4287-1 Accept **\*N900040100\*** Setup Start **\*NS1\***  
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 Start Date: 29/03/2012 Start Qty: 10.00 **\*10\*** Cust Item ID:  
 Required Date: 29/03/2012 Req'd Qty: 10.00 **\*10\*** Customer:  
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Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>Water</i>	0.00							
<b>*130*</b>									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

*12/3/21* (10)

*12/3/21*

*MF*  
*12-03-21*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

March-19-12 8:41:49 AM

Page 1

Work Order ID: 81713

\*81713\*

Parent Item: D4287-1

\*D4287-1\*

Parent Item Name: UHMW U-Channel

Start Date: 29/03/2012

Required Date: 29/03/2012

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A 10.11.15 new issue DD Verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
9928K53		Purchased	No			110	f	0.0000	1	10			
*9928K53*									**				
UHMW U-Channel													

*6/19/12 @ 10*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

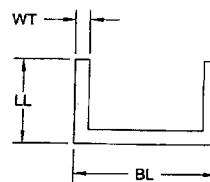
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# SPECIFICATION CONTROL DRAWING

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER

NO. 81713 MCLJ  
12/03/19



D4287-X UHMW U-CHANNEL

DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	MATERIAL	PURCHASED LENGTH	BASE LENGTH (BL)	LEG LENGTH (LL)	WALL THICKNESS (WT)	WEIGHT (lbs)
D4287-1	McMASTER-CARR	9928K53	UHMW (WHITE)	96.0	1.05	0.75	0.250	2.11
D4287-3	McMASTER-CARR	8672K31	UHMW (WHITE)	96.0	1.25	0.75	0.125	1.29

RELEASED  
2010-11-03

## NOTES:

- 1) MATERIAL: PURCHASE PER TABLE OR UHMW BLACK TIVAR 1000 VIRGIN MATERIAL REF. DART SPEC. MUHMW
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: NONE
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: PER TABLE

A		NEW ISSUE		MB	10.10.26
REV.		DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD			
DRAWN		HAWKESBURY, ONTARIO, CANADA			
CHECKED		DRAWING NO.	DSC-D4287	REV. A	
MFG. APPR.		TITLE		SHEET 1 OF 1	
APPROVED		UHMW U-CHANNEL		SCALE	
DE APPR.				NTS	
DATE	10.10.26	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR OFFERED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>			



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16475

Purchase Order Date 3/19/12

PO Print Date 3/19/12

Page Number 1 of 1

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

Contact Name

Vendor Phone

330 995 5500

Vendor Fax

330 995 9600

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA



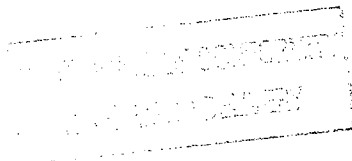
Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	9928K53	UHMW U-Channel	3/21/12 Yes	10.00 f	FedEx PI collect	\$2.6400	\$26.40
		Special Inst:	AS PER DWG D4287 REV. A B81713				
3		7016K16 CORD REEL	3/21/12 Yes	1.00 Each	FedEx PI collect	\$43.3700	\$43.37
4		4885T39 WORKBENCH LEGS	3/21/12 Yes	2.00 Each	FedEx PI collect	\$28.4700	\$56.94

Deliver To: PK

Deliver To: DAN.P

PO Total:

\$126.71



W 2

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 3/19/12



100 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
30-995-5500  
le.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada  
Attention: Dan P

McMaster-Carr Number  
2605876-01

03/19/2012

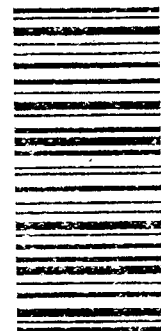
Line	Description	Ordered	Shipped					
1	<del>9928K53</del> Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick, 10' Length	10 Feet	10	7 - 130 - 07	24 - 59	K539	1 LG	1
	Unit Price:	\$2.64						
	Extended Price:	\$26.40						
2	7016K16 Light Duty Plug-in Spring-Rewind Reel, with 1 NEMA 5-15 Outlet, White, 16/3 Cord	1 Each	1	8 - 100				2
	Unit Price:	\$43.37						
	Extended Price:	\$43.37						
3	4885T39 Fixed-HT Workbench Leg with Electrical Knockouts, Stationary, 32" H, Fits 24" D Top, Dark Gray	2 Each	2	8 - 118				3
	Unit Price:	\$33.02						
	Extended Price:	\$66.04						

A44

Charges for this shipment

Merchandise Amount:	\$135.81
Sales Tax:	\$6.79
<b>Total:</b>	<b>\$142.60</b>

EXP  
INV  
NAFTA



37 lbs  
3 lines

FW1RFV58  
03/19/2012  
11:38/11:47  
419  
Cycle 32

1140317976180



Fr